

AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY

Founded by Aleš Hrdlička, 1918

MANAGING EDITOR

WILLIAM S. POLLITZER

University of North Carolina at Chapel Hill
Division of Health Affairs
Department of Anatomy
MacNider Building
Chapel Hill, North Carolina 27514

With the Editorial Assistance of
K. K. NAMBOODIRI

ASSOCIATE EDITORS

JOHN BUETTNER-JANUSCH
New York University

STEPHEN MOLNAR
Washington University

LAURA NEWELL MORRIS
University of Washington

CHARLES OXNARD
University of Chicago

BOOK REVIEW EDITOR
EUGENE GILES
Department of Anthropology
109 Davenport Hall
University of Illinois
Urbana, Illinois 61801

DONALD SADE
Northwestern University

PHILLIP V. TOBIAS
University of the Witwatersrand

ALAN WALKER
Harvard University

PETER WORKMAN
University of New Mexico

FILM REVIEW EDITOR
EDWARD E. HUNT, JR.
Department of Anthropology
409 Social Sciences Building
Pennsylvania State University
University Park, Pennsylvania 16802

Official Publication of the American Association of Physical Anthropologists

VOLUME 43

JULY, SEPTEMBER, NOVEMBER 1975

PUBLISHED BY

THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY
PHILADELPHIA, PA.

AMERICAN JOURNAL
OF
PHYSIOLOGICAL
ANTHROPOLOGY

COPYRIGHT © 1975 BY
THE WISTAR INSTITUTE PRESS

All rights reserved

Contents

No. 1 JULY 1975

HONORS — Mildred Trotter, Ph.D.	1
STEPHEN MOLNAR AND STEVEN C. WARD. Mineral Metabolism and Micro- structural Defects in Primate Teeth	3
STANLEY M. GARN, DARIS R. SWINDLER AND PAUL E. MINNIS. The Sex Difference in Dimensional Communalities in <i>Macaca nemestrina</i> ..	19
ADELOLA ADELOYE, KENNETH R. KATTAN AND FREDERIC N. SILVERMAN. Thickness of the Normal Skull in the American Blacks and Whites	23
JOSEPH K. SO. Genetic, Acclimatizational and Anthropometric Factors in Hand Cooling among North and South Chinese	31
HENRY M. MCHENRY. The Ischium and Hip Extensor Mechanism in Hu- man Evolution	39
ALAN G. FIX AND LUAN ENG LIE-INJO. Genetic Microdifferentiation in the Semai Senoi of Malaysia	47
CHARLES HUDSON, RONALD BUTLER AND DENNIS SIKES. Arthritis in the Prehistoric Southeastern United States: Biological and Cultural Vari- ables	57
M. R. FARRALLY AND W. J. MOORE. Anatomical Differences in the Femur and Tibia between Negroids and Caucasoids and Their Effects upon Locomotion	63
G. T. NURSE AND TREFOR JENKINS. The Griqua of Campbell, Cape Prov- ince, South Africa	71
MILDRED TROTTER, BARBARA B. HIXON AND SUSAN S. DEATON. Sequential Changes in Weight of the Skeleton and in Length of Long Limb Bones of <i>Macaca mulatta</i>	79
D. L. ANDERSON, G. W. THOMPSON AND F. POPOVICH. Evolutionary Dental Changes	95
K. KAMEL, M. 'UMAR, W. IBRAHIM, A. MANSOUR, F. GABALLAH, O. SELIM, A. AZIM, S. HAMZA, F. SABRY, N. MOAFY, A. EL-NAGGAR AND K. HOER- MAN. Anthropological Studies among Libyans. Erythrocyte Genetic Factors, Serum Haptoglobin Phenotypes and Anthropometry	103
BRIAN L. O'CONNOR. The Functional Morphology of the Cercopithecoid Wrist and Inferior Radioulnar Joints, and Their Bearing on Some Problems in the Evolution of the Hominoidea	113
DEAN FALK. Comparative Anatomy of the Larynx in Man and the Chim- panzee: Implications for Language in Neanderthal	123
MICHAEL H. CRAWFORD AND EVELYN GOLDSTEIN. Demography and Evo- lution of an Urban Ethnic Community: Polish Hill, Pittsburgh	133

Technical Report

ALLAN L. VAN NESS, O. MONTE MERRILL AND JAMES R. HANSEL. Cephalometric Roentgenography for Nonhuman Primates Utilizing a Surgically Implanted Head Positioner	141
<i>Film Reviews</i>	149
<i>Book Reviews</i>	153

No. 2 SEPTEMBER 1975

D. GENTRY STEELE. Thomas W. McKern — Obituary	159
P. L. WORKMAN, P. LUCARELLI, R. AGOSTINO, R. SCARABINO, R. SCACCHI, E. CARAPELLA, R. PALMARINO AND E. BOTTINO. Genetic Differentiation among Sardinian Villages	165
R. PALMARINO, R. AGOSTINO, F. GLORIA, P. LUCARELLI, L. BUSINCO, G. ANTOGNONI, G. MAGGIONI, P. L. WORKMAN AND F. BOTTINI. Red Cell Acid Phosphatase: Another Polymorphism Correlated with Malaria?	177
K. KANO AND C. S. CHUNG. Do American Born Japanese Children Still Grow Faster than Native Japanese?	187
RICHARD F. KAY. The Functional Adaptations of Primate Molar Teeth ..	195
JAMES P. WELLS AND GRAEME A. WOOD. The Application of Biomechanical Motion Analysis to Aspects of Green Monkey (<i>Cercopithecus a. sabaues</i>) Locomotion	217
WILLIAM L. HYLANDER. The Human Mandible: Lever or Link?	227
PAVEL KRAŠKO. Amylase Iso-enzymes in Primates of the Families Lemuridae, Cebidae, Cercopithecidae, Hylobatidae and Pongidae	243
HENRY M. MCHENRY. A New Pelvic Fragment from Swartkrans and the Relationship between the Robust and Gracile Australopithecines ...	245
HENRY M. MCHENRY AND ROBERT S. CORRUCINI. Multivariate Analysis of Early Hominid Pelvic Bones	263
STEPHEN L. ZEGURA. Taxonomic Congruence in Eskimoid Populations ..	271
A. ROBERTO FRISANCHO AND JANE E. KLAYMAN. A-B-O and Rh Affinities between Highland and Lowland Quechua-speaking Peruvian Populations	285
PAUL W. SCIULLI AND D. C. RAO. Path Analysis of Palmar Ridge Counts ..	291
ALAN G. FIX. Fission-fusion and Lineal Effect: Aspects of the Population Structure of the Semai Senoi of Malaysia	295
<i>Brief Communications</i>	
GLENN HAUSFATER. Knuckle Walking by a Baboon (<i>Papio cynocephalus</i>) ..	303
MILFORD H. WOLPOFF. Dental Reduction and the Probable Mutation Effect ..	307
<i>Book Reviews</i>	309

No. 3 NOVEMBER 1975

PAUL R. KATZ, HERBERT M. REYNOLDS, DAVID R. FOUST AND JANET K. BAUM. Midsagittal Dimensions of Cervical Vertebral Bodies	319
STANLEY M. GARN, ALPHONSE R. BURDI, WILLIAM J. BABLER AND SARA STINSON. Early Prenatal Attainment of Adult Metacarpal-Phalangeal Rankings and Proportions	327
CAROL LAUER. The Relationship of Tooth Size to Body Size in a Population of Rhesus Monkeys (<i>Macaca mulatta</i>)	333
REYNALDO MARTORELL, CHARLES YARBROUGH, AARON LECHTIG, JEAN-PIERRE HABICHT AND ROBERT E. KLEIN. Diarrheal Diseases and Growth Retardation in Preschool Guatemalan Children	341
REYNALDO MARTORELL, JEAN-PIERRE HABICHT, CHARLES YARBROUGH, GUILLERMO GUZMAN AND ROBERT E. KLEIN. The Identification and Evaluation of Measurement Variability in the Anthropometry of Preschool Children	347
G. OLIVIER AND H. TISSIER. Determination of Cranial Capacity in Fossil Men	353
ALPHONSE R. BURDI, STANLEY M. GARN AND JEROME N. SUPERSTINE. Mandibular Precedence in the Prenatal Development of Four Permanent Teeth	363
<i>Brief Communications</i>	
JOHN H. HIMES AND ROBERT M. MALINA. Age and Secular Factors in the Stature of Adult Zapotec Males	367
<i>Book Reviews</i>	371
SYMPOSIUM IN HONOR OF THE LATE ALBERT DAMON: Anthropological Aspects of Pigmentation	381
PETER W. POST. Introduction: The Study of Pigmentation	383
ALICE M. BRUES. Rethinking Human Pigmentation	387
W. C. QUEVEDO, JR., T. B. FITZPATRICK, M. A. PATHAK AND K. JIMBOW. Role of Light in Human Skin Color Variation	393
ROBERT M. NEER. The Evolutionary Significance of Vitamin D, Skin Pigment, and Ultraviolet Light	409
J. MICHAEL HOFFMAN. Retinal Pigmentation, Visual Acuity and Brightness Levels	417
GLENN B. SHORT. Iris Pigmentation and Photopic Visual Acuity: A Preliminary Study	425
PETER W. POST, GEORGE SZABÓ AND M. E. KEELING. A Quantitative and Morphological Study of the Pigmentary System of the Chimpanzee with the Light and Electron Microscope	435
AMERICAN ASSOCIATION OF PHYSICAL ANTHROPOLOGISTS Proceedings of the Forty-fourth Annual Meeting with list of members	445
Index to Volume 43	481

